



ESTEC, Noordwijk, The Netherlands

## COMMUNICATION

Information concerning the workshop is distributed via the (low-volume, moderated) pde-announce@lists.nasa.gov mailing list. To subscribe please go to:

<http://lists.nasa.gov/mailman/listinfo/pde-announce>

## TIME TABLE

February 14, 2008:	Deadline for abstract submission
February 21, 2008:	Notification to authors and preliminary programme
March 19, 2008:	Deadline for presentation submission
March 26-28, 2008:	Workshop

## COMMITTEES

### NASA and ESA Organizers

Hans Peter de Koning (ESA/ESTEC) ESA General Chair  
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Harald Eisenmann (EADS Astrium)  
Keith Hunten (Lockheed Martin)  
Eric Lebegue (CSTB)  
Russell Peak (Georgia Tech)  
Farrokh Shoar (NASA-JPL)  
Greg Smith (Boeing)



## Call for Presentations

### PDE 2008

### The 10th NASA-ESA Workshop on Product Data Exchange (PDE)

<http://conferences.esa.int/pde2008>

March 26-28, 2008, Noordwijk, The Netherlands

Hosted by ESA/ESTEC

*2008 Theme:*

*High quality exchange and sharing of data  
between all engineering disciplines*

The Workshop for Open Product Lifecycle Management (PLM)

Also known in previous years as "*The STEP for Aerospace Workshop*" and "*The Aerospace Product Data Exchange (APDE) Workshop*". For information and download of presentations from previous workshops please visit <http://step.nasa.gov>.

You are invited to participate in the 10th NASA-ESA Product Data Exchange (PDE) Workshop, which is jointly organized by the National Aeronautics and Space Administration (NASA), the European Space Agency (ESA) and an international advisory panel.

This year the workshop returns to ESTEC – the European Space Research and Technology Centre of ESA – where the workshop was also held in 2002.

We build further on the heritage of nine highly successful annual workshops, alternating between the US and Europe. Over the years the workshop scope has evolved from focussing on a number of ISO 10303 / STEP (related) data exchange standards to a broad range of data exchange and data sharing technologies and standards that enable efficient and effective product life cycles (PLM) for complex systems and facilitate collaboration between organisations and disciplines.

The programme will be similar to previous PDE workshops: an opening evening reception followed by three days of presentations, plenary keynotes and discussions, networking opportunities, and "birds of a feather" meetings. Further information regarding the programme will be made available on the workshop website.

## OBJECTIVES

- To bring together developers, implementers and users of product data exchange and data sharing solutions, and to share experience obtained in development, implementation, deployment and operational use.
- To provide an international forum to discuss methods and technology for the reliable capture, management, exchange, sharing and long term archival of product/system information, especially through the use of open standards.
- To identify or showcase interoperability standards and technology for product lifecycle management of complex systems, including cross-fertilization between solutions developed in different industry sectors.
- To identify gaps where new solutions need to be developed – or where existing ones need to be extended – and to bring together the people to foster such initiatives.
- To promote development and adoption of open standards for model-based systems engineering – improving the specification, acquisition, design, analysis, verification, validation and operation of complex systems through the use of executable models (executable in a simulation environment).

## TOPICS

- Open standards as enablers for multi-disciplinary integrated product development teams and advanced engineering analysis and simulation:
  - Collaborative "e-engineering" scenarios / "virtual product models"
  - Advances in robust industrial CAD, CAE, CAM, systems engineering, and PDM interoperability based on open standards such as ISO 10303 (STEP) and OMG specifications (e.g. MDA, PLM Services, and SysML), and architectural frameworks (e.g. DoDAF/MoDAF)
  - Linking systems engineering, mechanical design (mCAD), electrical design (eCAD), software design, analysis & simulation (CAE, discrete event, real-time, communication links, virtual reality, ...), manufacturing (CAM), assembly, integration & testing, logistics, deployment and operation
  - Linking standards for product data and life cycle processes (workflows)
  - Shared or open electronic dictionaries, catalogues and reference data libraries – including issues regarding their operation, maintenance and intellectual property rights
- Reliable long-term archival and re-use of product data for complex systems

- Awareness and application of underlying standards and software technology that enable efficient product lifecycles, e.g.:
  - Data modeling, transport and APIs: STEP EXPRESS, UML2/OCL/XMI, XML/XSD, WSDL/SOAP/web services, ...
  - Advanced software architectures, automated transformations and code generation: OMG's Model Driven Architecture (MDA), MOF/XMI, QVT, ...
  - Reference data, ontologies, semantic web: PLIB, ISO 15926, RDF/OWL, ...
- Joining open standards with the open source software (OSS) development model for cost-effective implementations that avoid vendor dependencies
- Success stories and lessons learned in developing, implementing and/or using open product data exchange and data sharing standards
- Sustainability of open solutions, including total cost of usage/ownership, stakeholder win-win mechanisms, and balancing openness versus business viability and competitive advantage

## CALL FOR PAPERS AND PRESENTATIONS

Both full papers with presentations or presentations only are accepted. Abstracts should be submitted on-line by **February 14th, 2008** latest, at <http://conferences.esa.int/pde2008>. Abstracts submitted late will only be accepted if time and space permit. After the workshop the papers and presentations will be published at the same website.

Participants are welcome to contact the organizers with ideas for presentations and/or demonstrations.

## VENUE and REGISTRATION

The workshop venue is ESA/ESTEC. The nearest international airport is Amsterdam Schiphol, which is about 30 minutes by car. The street address is: Keplerlaan 1, 2201 AZ Noordwijk, The Netherlands.

An on-line registration form and details on travel and hotel reservation are available at <http://conferences.esa.int/pde2008>. Early hotel reservation is strongly recommended. Preferential group rates have been negotiated.

The workshop fee will be around €200 and includes:

- Three lunches (March 26th, 27th, 28th)
- Welcome cocktail (March 26th) and group dinner (March 27th evening)
- Coffee and tea breaks
- Bus transportation from Noordwijk hotels to ESTEC and back – however you can also come by (rental) car and park on-site

At the venue wireless Internet access (unsecured) will be provided as well as a few PCs with browser access.